

SOBOLEV, V. N.

Lumbering - Costs

Introducing wholesale prices in ship repairing. Les. prom. 12 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952
A¹⁹⁵³, Uncl.

1. VOLYRAYEV, E. P.; SOBOLEV, V. N.; Engs.
2. USSR (600)
4. Ships
7. Vessels for small rivers. Rech. transp. 13, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. YARPAYEV, YE. P., SOBOLEV, V.N.
2. USSR (600)
4. Hoisting Machinery
7. Self-propelled floating winch, Ye. P. Varpayev, V.N. Sobolev, Lcs.prom. 13 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

L 38241-66
ACC NR: AP6023601

EWT(d)/EWP(l) IJP(c) GG/BB

SOURCE CODE: UR/0106/66/000/007/0043/0049

AUTHOR: Leytes, R. D.; Sobolev, V. N.

ORG: none

TITLE: Principles of digital simulation of vocoders 166SOURCE: Elektrosvyaz¹, no. 7, 1966, 43-49

TOPIC TAGS: vocoder, computer simulation

ABSTRACT: Connected with the fundamental vocoder simulation work by E. E. David et al. (Proc. IRE, no. 1, 1961), the present article discusses the computer simulation of these principal components of any vocoder: voice-spectrum analyzer, excitation source, and synthesizer. In the simplest analyzer model, the initial speech function is approximated by a truncated Fourier series; this model is convenient for studying speech spectral portraits. Another analyzer model representing an equal-articulation vocoder idea can be obtained by a slight modification of the first model. The effect of filter-caused distortion on the quality of a synthesizer speech can be clarified by using a "follower-type" computer model, which can be obtained from the first model by introducing a variable observation period. An ideal uniform-speech-spectrum generator can be used as an excitation-source model; it produces digitalized sinusoidal oscillations of the fundamental-tone harmonics. This model is

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capable of interpolating between the amplitudes and the frequencies of various harmonics which ensures reproduction of a continuous speech (synthesizer). The above ideas are claimed to have been experimentally verified; "the model proved its workability"; a "voice vibration" was observed in the synthesized speech. Orig. art. has: 5 figures and 8 formulas.

[03]

SUB CODE: 09 / SUBM DATE: 20Jan66 / ORIG REF: 009 / OTH REF: 002 / ATD PRESS: 5046

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"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

SOBOLEV, V.P.

DECEASED
C' 1961

1962/5

SEE IIC

ENGINEER - *Hydraulic*
(CONSTRUCTION)

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CIA-RDP86-00513R001651830001-6"

KARELIN, P.; SOBOLEV, V.

Conveyer system used in second technical servicing of motortrucks.
(MLRA 10:8)
Avt.transp. 35 no.7:16-19 Jl '57.

1.2-va avtobaza Glavmosavtotransa.
(Motor trucks--Repairing)
(Assembly-line methods)

SOBOL'EV, V.

New technique for transporting bricks and ceramic stones
stowed in blocks. Avt.transp. 35 no.11:7-9 N '57. (MIRA 10:12)

1.Nachal'nik tekhnicheskogo otdela avtobazy No.2 Glavmosavtotransa.
(Bricks--Transportation)

INDIKT, Ye.; SOBOLEV, V.

Automatic washing of motortrucks. Avt.transp. 38 no.1:19-22
(MIRA 13:5)
Ja '60.

1. Vtoraya avtobaza Mosstroytransa.
(Motortrucks--Maintenance and repair)

INDIKT, Ye., inzh.; SOBOLEV, V., inzh.

Machine for washing units and parts. Avt.transp. 39 no.12:46-50
D '61. (MIRA 15:1)
(Washing machines)

INDIKT, Yefim Aleksandrovich; GAYDAYENKO, Petr Il'ich; SOBOLEV,
Viktor Pavlovich; GRIBANOV, A.L., red.; GALAKTIONOVA, Ye.N.,
tekhn. red.

[Organizing the operation of a large automotive transporta-
tion unit]Organizatsiia proizvodstva v krupnom avtokho-
ziaistve. Moskva, Avtotransizdat, 1962. 111 p. (MIRA 15:9)
(Transportation, Automotive)

INDIKT, Ye.; SOBOLEV, V.

Motortruck for the transportation of building mortar.
Avt.transp. 40 no.3:35 Mr '62. (MIRA 15:2)
(Building materials--Transportation)

STRUCHKOV, V.I.; MARSHAK, A.M.; SOBOLEV, V.B.

Distribution of tetracycline in lung tissue, Antibiotiki 2 no.1:
(MIRA 12:11)
197-48 Ja-F '57.

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof.
Z.V. Yermol'yev) TSentral'nogo instituta usovershenstvovaniya vrachey,
Klinika obshchey khirurgii I Moskovskogo ordena Lenina meditsinskogo
instituta, Bol'niitsa No.23 imeni "Medsantrud."

(TETRACYCLINE, metab.
distribution in lung tissue in high concentration
in lung tissue after intramusc. admin.)

(LUNGS, metab.
distribution of tetracycline in lung tissue after
intramusc. admin.

SOBOLEV, L.V.
SOBOLEV, V.R.; GIVENTAL', N.I.

Comparative study of tetracycline concentrations in fluids and
organs in white mice following various methods of administration.
Antibiotiki 2 no.6:38-42 N-D '57. (MIRA 11:2)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR
prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya
vrachey.

(TETRACYCLINE, metabolism,
in various organs after various modes of admin. (Rus))

SOBOLEV, V.P.

YERMOL'YEVA, Z.V., LAZAREVA, Ye.N., SOBOLEV, V.P., SAVEL'YEVA, A.I.,

Comparative study on therapeutic forms of penicillin for peroral
administration under experimental conditions [with summary in English].
Antibiotiki, 3 no.3:45-49 My-Je '58 (MIRA 11:7)

1. Kafedra mikrobiologii TSentral'nogo instituta usovershenstvovaniya
vrachey i otdel khimioterapii Vsesoyuznogo nauchno-issledovatel'skogo
instituta antibiotikov.

(PENICILLIN, effects,
on bact. in vitro, comparison of various oral prep.
(Rus))

SOBOLEV, V.R.; SAVEL'YEVA, A.M.

Comparative studies on ecmoline penicillin and chlortetracycline preparations in vitro [with summary in English]. Antibiotiki 3 (MIRA 12:2) no.6:78-80 N-D '58.

1. Kafedra mikrobiologii TSentral'nogo instituta usovershenstvovaniya vrachey (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva).
(PENICILLIN, admin.
with ecmoline, antimicrobial eff. (Rus))
(CHLORTETRACYCLINE, admin.
same)
(ANTISEPTICS, admin.
ecmoline with chlortetracycline & penicillin,
antimicrobial eff. (Rus))

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CIA-RDP86-00513R001651830001-6

MIKHAYLOVA, Yu.M., SOBOLEV, V.R. (Moskva)

Antibiotics of the tetracycline group. Fel'd. i akush. 23 no.10
3-7 0 '58 (MIRA 11:11)
(TETRACYCLINE)

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CIA-RDP86-00513R001651830001-6"

SOBOLEV, V.P., MIKHAYLOVA, Yu.M., SAVEL'YEVA, A.M. (Moskva)

Penicillin compounds. Fel'd. i akush. 23 no.12:8-11 D'58 (MIRA 11:12)
(PENICILLIN)

KIVMAN, G.Ya.; SOBOLEV, V.R.

Two works on the side effects of antibiotics ("Side effects of antibiotics" by A.L.Libov; "Complications due to antibiotics" by V.A.Shorin. Reviewed by G.IA.Kivman, V.R.Sobolev). Antibiotiki 4 no.3:123-124 My-Je '59. (ANTIBIOTICS) (LIBOV, A.L.)

Anti- (MIRA 12:9) (SHORIN, V.A.)

SOBOLEV, V.R.; BRAUDE, A.I.

Use of tetracyclines in experimental gas gangrene. Antibiotiki 4
no.5:52-58 S-O '59. (MIRA 13:2)

1. Kafedra mikrobiologii i laboratoriya novykh antibiotikov (zav. -
chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo
instituta usovershenstvovaniya vrachey.
(TETRACYCLINE pharmacol.)
(GAS GANGRENE exper.)

SOBOLEV, V.R.; BASKANCHILADZE, G.Sh.

Comparative experimental study of erythromycin, tetracycline, and penicillin in coccal infections. Antibiotiki 6 no.3:228-231 Mr '61.
(MIRA 14:5)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey.

(ANTIBIOTICS) (STREPTOCOCCAL INFECTIONS)
(STAPHYLOCOCCAL INFECTIONS)

SOBOLEV, V.R.; BASKANCHILADZE, G.Sh.

Comparative studies on the absorption and distribution of new tetracycline preparations. Antibiotiki 6 no.5:431-433 My '61.

l. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey.
(TETRACYCLINE) (MIRA 14:7)

SOBOLEV, V.R.; VLASOVA, I.V.

Comparative study of three methods of determining the sensitivity
of the ~~enteric~~ group of bacteria to antibiotics of the tetracycline
series. Lab.delo 7 no. 9:46-48 S '61. (MIRA 14:10)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR
prof. Z.V.Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya
vrachey.

(INTESTINAL--MICROBIOLOGY) (ANTIBIOTICS)

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CIA-RDP86-00513R001651830001-6

CHERNUKH, Aleksey Mikhaylovich; KIVMAN, Grigoriy Yakovlevich; SOBOLEV,
V.R., red.; BALDINA, N.F., tekhn. red.

[Antibiotics of the tetracycline group] Antibiotiki gruppy
tetratsiklinov. Moskva, Medgiz, 1962. 354 p. (MIRA 15:7)
(TETRACYCLINE)

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CIA-RDP86-00513R001651830001-6"

POKROVSKIY, V.I.; SOBOLEV, V.R. (Moskva)

Use of tetracyclines in suppurative meningitis. Klin.med. no.9:
46-51 '62. (MIRA 15:12)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin)
I Moskovskogo ordena Lenina meditsinskogo instituta na baze Moskov-
skoy klinicheskoy infektsionnoy bol'nitsy No.7 (glavnyy vrach
N.G. Zaleskver) i kafedry mikrobiologii (zav. - chlen-korrespondent
AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usover-
shenstvovaniya vrachey.

(TETRACYCLINE) (MENINGITIS)

SOBOLEV, V.R.; SHCHERBAK, Yu.F.

Treatment of brucellosis by intramuscular administration of tetracycline. Antibiotiki 7 no.3:79-83 Mr '62. (MIRA 15:3)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva), kafedra infektsionnykh bolezney (zav. - deystvitel'nyy chlen AMN SSSR prof. G.P. Rudnev) TSentral'nogo instituta usovershenstvovaniya vrachey.
(BRUCELLOSIS) (TETRACYCLINE)

SOBOLEV, V.R.; CHERKASOV, V.L.

Principles for therapeutic schemes in the treatment of erysipelas with the peroral and intramuscular administration of tetracycline. Antibiotiki ? no.9:836-839 S '62. (MIRA 15:12)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey i kafedra infektsionnykh bolezney (zav. - prof. K.V.Bunin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(TETRACYCLINE)(ERYSIPELAS)

SOBOLEV, V.R.; VLASOVA, I.V.

Rapid method for determining staphylococcal sensitivity to
antibiotics. Lab.delo 8 no.5:40-42 My '62. (MIRA 15:12)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR
prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvo-
vaniya vrachey (dir. M.D.Kovrigina), Moskva.
(STAPHYLOCOCCUS) (ANTIBIOTICS)

SOBOLEV, V.R.; POKROVSKIY, V.I.

Distribution of antibiotics of the tetracycline group in the body in some diseases. Sovet. med. 27 no.6:129-134 Je'63
(MIRA 17:2)

1. Iz kafedry mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovernenstvovaniya vrachey i kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin) I Moskovskogo ordena Lenina meditsinskogo instituta.

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CIA-RDP86-00513R001651830001-6

SOBOLEV, V.R.; GIVENTAL', N.I.; SHCHERBAK, Yu.F.

Intramuscular use of tetracycline antibiotics in brucellosis in
an experiment and in a clinic. Trudy TSIU 68:140-144 '64. (MIRA 18:5)

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CIA-RDP86-00513R001651830001-6"

SOKOLOV, V.R.; VLASOVA, I.V.; K-STRUBIN, E.M.

Accelerated determination of the sensitivity of various groups of micro-organisms to antibiotics with the aid of phase contrast microscopy. Antibiotiki 9 no.12:1073-1077 D '64. (MIRA 18:7)

1. Kafedra mikrobiologii (zav., - deyatel'nyy chлен AMN SSSR, prof., Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya "Bachey, Moskva.

SOBOLEV, V.R.; GALKIN, V.A.; BROUINOVA, N.S.

Expedient methods for the administration of tetracycline in
treating chronic cholecystitis. Antibiotiki 10 no.2:173-176
(MIRA 18:5)
F '65.

1. Kafedra mikrobiologii (zav. - deyствител'nyy chlen AMN SSSR
prof. Z.V.Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya
vrachey i kafedra fakul'tetskoy terapii (zav. - prof. A.G.
Gukasyan) I Moskovskogo ordena Lenina meditsinskogo instituta
imeni Sechenova.

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CIA-RDP86-00513R001651830001-6

JERMOLOJEVA, Z.V.; BRAUDE, A.J.; VAJSEBURG, G.E.; RADIC, J.V.; SOBOL'EV,
V.R.; FURER, N.M.

New antibiotics and other biologically active natural substances
in the USSR. Cas. lek. cesk. 104 no.12:337-339 2 Ap '65.

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CIA-RDP86-00513R001651830001-6"

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

MOLCHANAEVA, I.E.; SODOLEV, V.R.

Ways of prolonging the effect of tetracycline. Trudy
TETL 30:13-95 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

IL'YENKOV, A.I.; KLISTORIN, I.F.; SOBOLEV, V.S.; SHALINA, L.V.,
red.; VYALYKH, A.M., tekhn. red.

[Transistor voltage regulators] Poluprovodnikovye stabi-
lizatory napriazheniya. Novosibirsk, Izd-vo sibirskogo
otd-niya AN SSSR, 1962. 51 p. (MIRA 16:7)
(Voltage regulators)

SOBOLEV, V.S.

Theory of the method of a superpozed coil in testing with eddy currents. Izv. SO AN SSSR no.2 Ser. tekhn. nauk no.1:78-88 '63.
(MIRA 16:8)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya
AN SSSR, Novosibirsk.
(Nondestructive testing)
(Eddy electric currents)

SCBNUV, V.A.

Conference on automatic control and electric measurements. Izm.
tekhn. no.1:57-59 Ja '65. (MERA 18:4)

L4375.85 EEC-4/EEC(K)-2/FWA(H)/SWT(J)/FWT(1)/F₁ P₀₋₄/P_{k-4}/P₁₋₄/P₀₋₄/P₀₋₄/P₁₋₄/
S63 LPT(e) AP S/0032/65/031/002/0209/0211
ACCESSION NR: AP5005480

AUTHOR: Sobolev, V. S.

TITLE: Contactless method for determining the resistivity of semiconductors

SOURCE: Zavedskaya laboratoriya, v. 31, no. 2, 1965, 209-211

TOPIC TAGS: semiconductor resistance

ABSTRACT: A method is described for determining the resistivity of semiconductors based on the effect of a conducting specimen on a nearby toroidal coil or single-layer cylindrical coil carrying alternating current. The resistivity can be found from the equations (using a toroidal coil or cylindrical coil respectively as a detector):

$$\frac{R_{\text{SH}}}{\omega L_0} = \frac{\sqrt{2}\pi}{\ln \frac{8a}{r} - 2} \cdot F_1(\alpha, \beta),$$

$$\frac{R_{\text{SH}}}{\omega L_0} = \frac{\sqrt{2}}{K_a \gamma} \cdot F_2(\alpha, \beta, \gamma),$$

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where $\alpha = \frac{2h}{a}$, $\beta = a \sqrt{\frac{\omega \mu_0}{\rho}}$, $\gamma = \frac{l}{a}$, a is the radius of either type coil, h is the gap distance between the specimen and the detector, l is the length of the cylindrical coil, ρ is the resistivity of the specimen, ω is the angular frequency of the current, L_0 is the inherent inductance of either type coil, R_{BH} is the inherent loss in the detector circuit contributed by the specimen, μ_0 is the permeability of free space, r is the conductor radius of the toroidal coil, and the functions F_1 , F_2 , and K_a are tabulated. These equations are based on the assumption that the plane of the toroidal coil or the end of the cylindrical coil is parallel to the flat face of the specimen whose dimensions are large compared to the dimensions above. The term on the left side of the equations, being the attenuation in the detector circuit contributed by the specimen, is given by the equation

$$\frac{R_{BH}}{\omega L_0} = \frac{Q_0 C_0 - Q_H C_H}{Q_0 \cdot Q_H \cdot C_H}$$

The experimentally measured values Q_0 , C_0 and Q_H , C_H are the Q and the resonance value of the capacitance of the detector circuit without and with the specimen in place. A detailed discussion indicates that the optimum experimental

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conditions are obtained for $\beta = 0.5-2$; $Q_s = 0.5 Q_0$, and that the diameter of the detector coil must be at least 3 or 4 times smaller than the circumference of the flat face of the specimen. Resistivities measureable by this method have an upper limit of 30-50 ohm-cm. The experimental error does not exceed 10%. Orig. art. has: 13 equations, 3 diagrams, and 2 tables.

ASSOCIATION: Institut avtomatiki i elektrometrii, SO Akademii nauk SSSR (Institute of Automation and Electrometry, SO, Academy of Sciences, SSSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: SS

NO REF Sov: 006

OTHER: 002

cc
Card 3/3

SOBOLEV, V. S.

K voorosu o raspredelekenii mestorozhdenii magnetita na Sibirskoy platforme

(The Occurrence of Magnetite Deposits in the Siberian Plateau).

Izv. Vsesoyuzn. geol.-razved. ob"yedin. Vol 50, no 100, 1931.

All-Union Geological Survey Association Journal.

U.S.S.R., U. S.

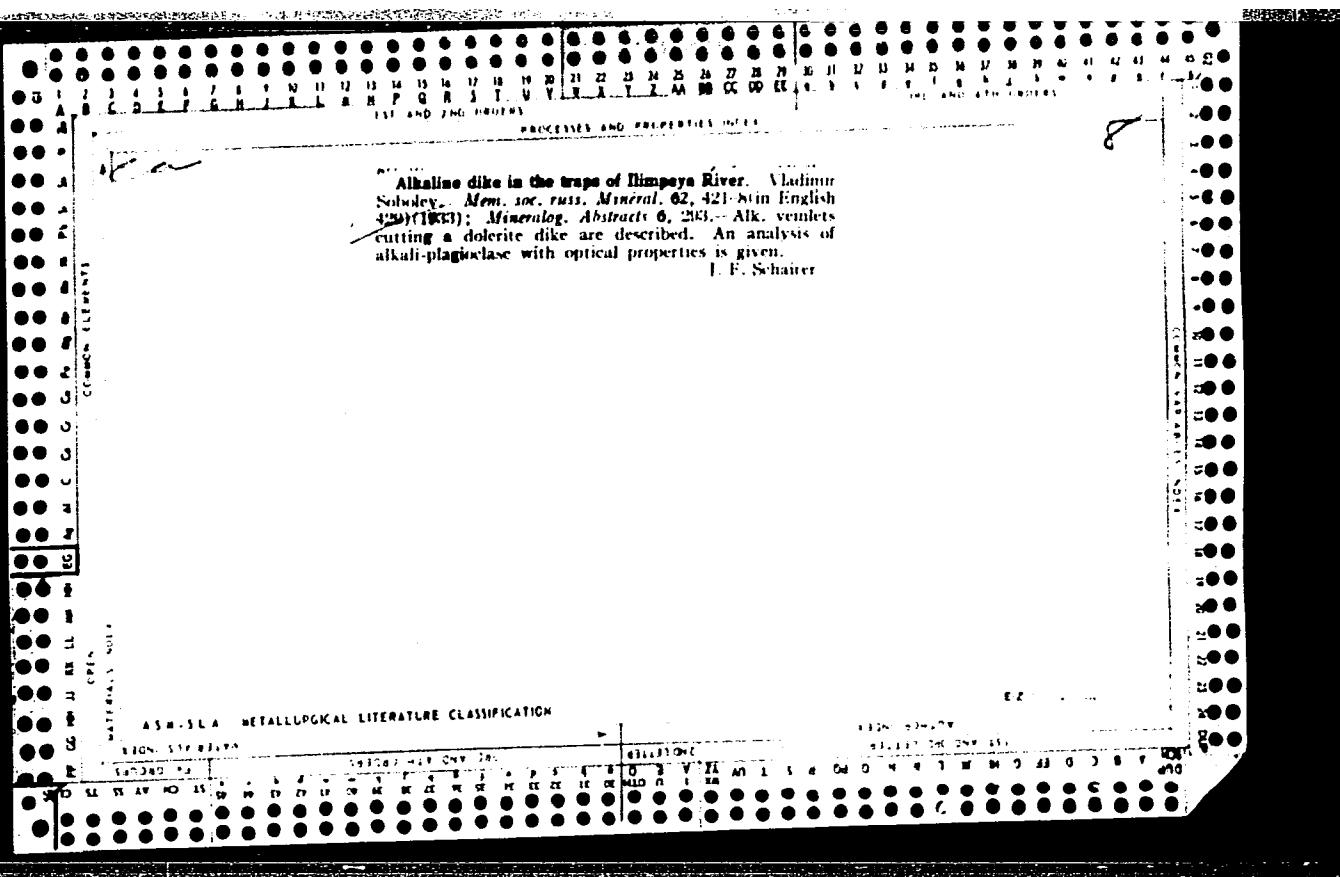
Rabochaya Kniga po mineralogii, part 2, edited by A. K. Boldyrev.
L.-M. Gos. nauchno.-tekhn. redaktsionno-izdatelstvo, 1932.

"Bisilicates (Metasilicates) without water and without Volatile Matter"
pp.35-37.

"Anhydrides of Alumosilicic Acids." pp. 71-75.

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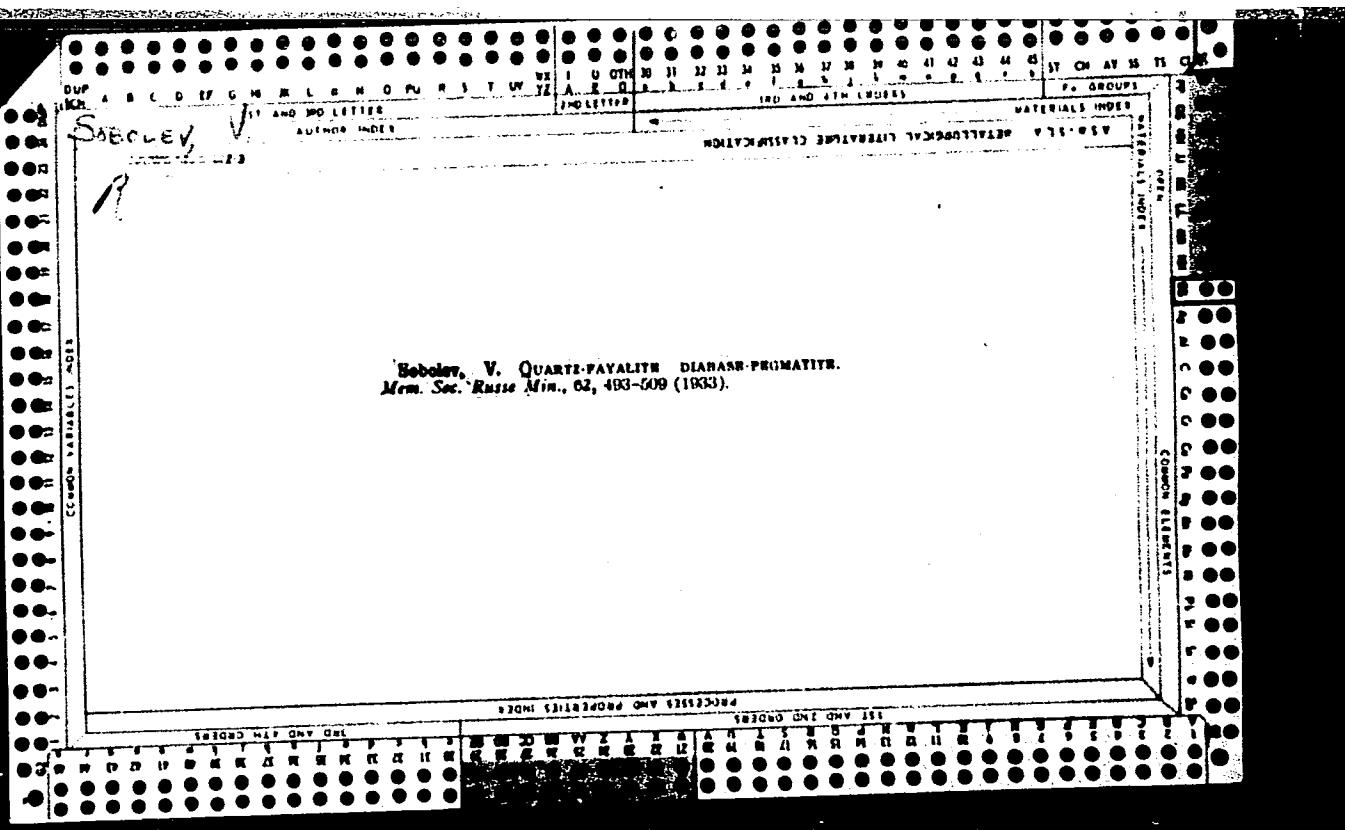


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CIA-RDP86-00513R001651830001-6"

SOROKIN, V. S.

"Geologicheskiye issledovaniya v basseyne rek Sredney i Verkhney Largy
(Yuzhnaya Yakutiya)"

"Regional Geology and Hydrogeology, Compendium No 2 Leningrad-Moscow
Novosibirsk, 1933,"

"Materialy Tsentr. nauch.-issled. geol.-rezved. in-ta."

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

DUDOVICH, V. S.

"Mikroskopicheskie issledovaniya po resobrazovushchikim mineralam
po metodu E. S. Fedotova"

Leningrad-Moscow-Novosibirsk, 1933.

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CIA-RDP86-00513R001651830001-6

СОБЫЕВ, Г. В.

"Sibirskiye trappy, primer yavleniy kristallizatsionnoy differentsialsii"

"Problemy Sov. Geologii" vol 5, no 7, 1935.

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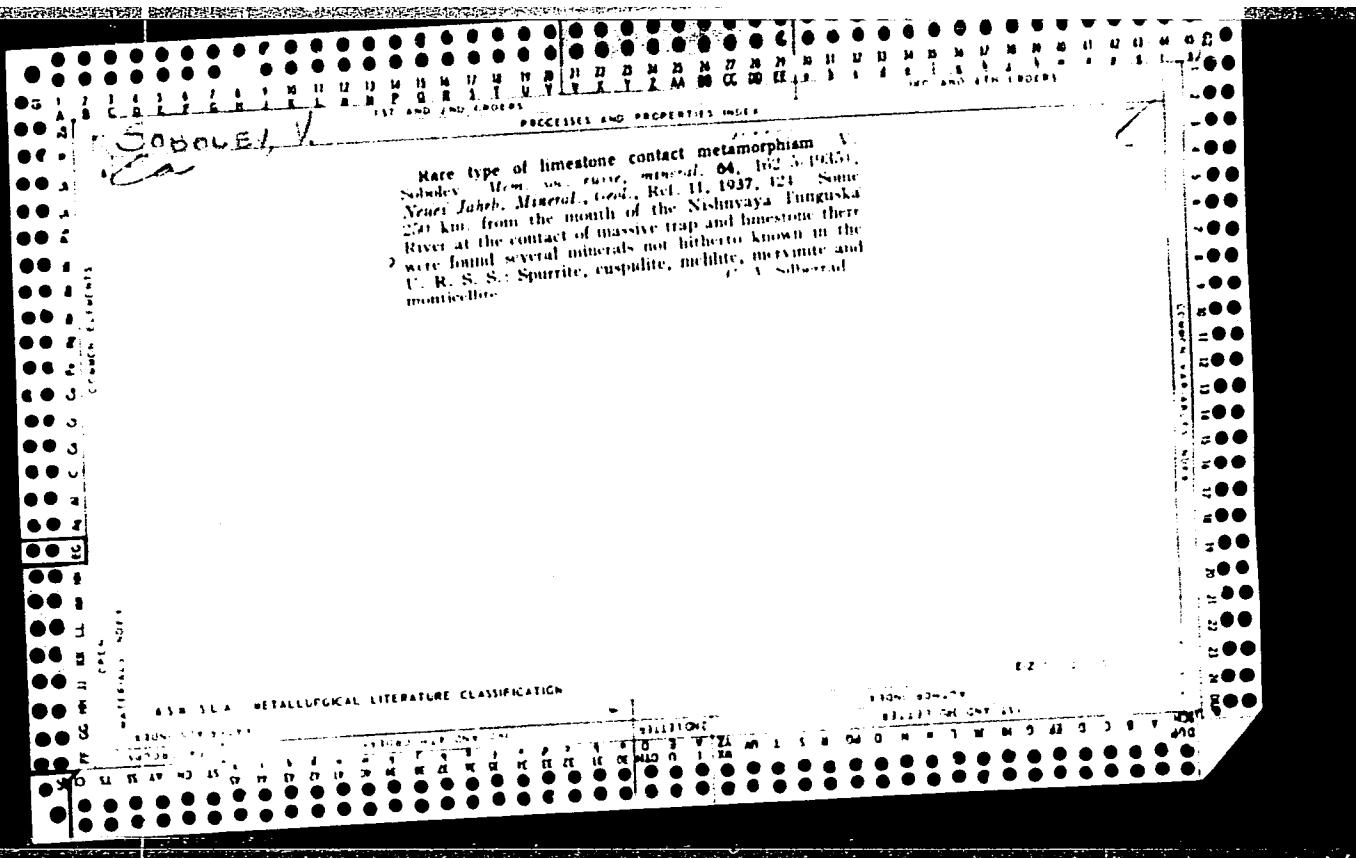
CIA-RDP86-00513R001651830001-6

SOBOLEV, V.S.

"The Iron Ore Deposit of the Ilimpeia River, Eastern Siberia, Economic
Geology, vol 30, no 7, 1935

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CIA-RDP86-00513R001651830001-6"



Map: ILIMPEY, river. OSU-Am2322 S-126

Sobolev, V.: Geologo-Petrograficheskiy Ocherk Rayona r.

Ilimpey.

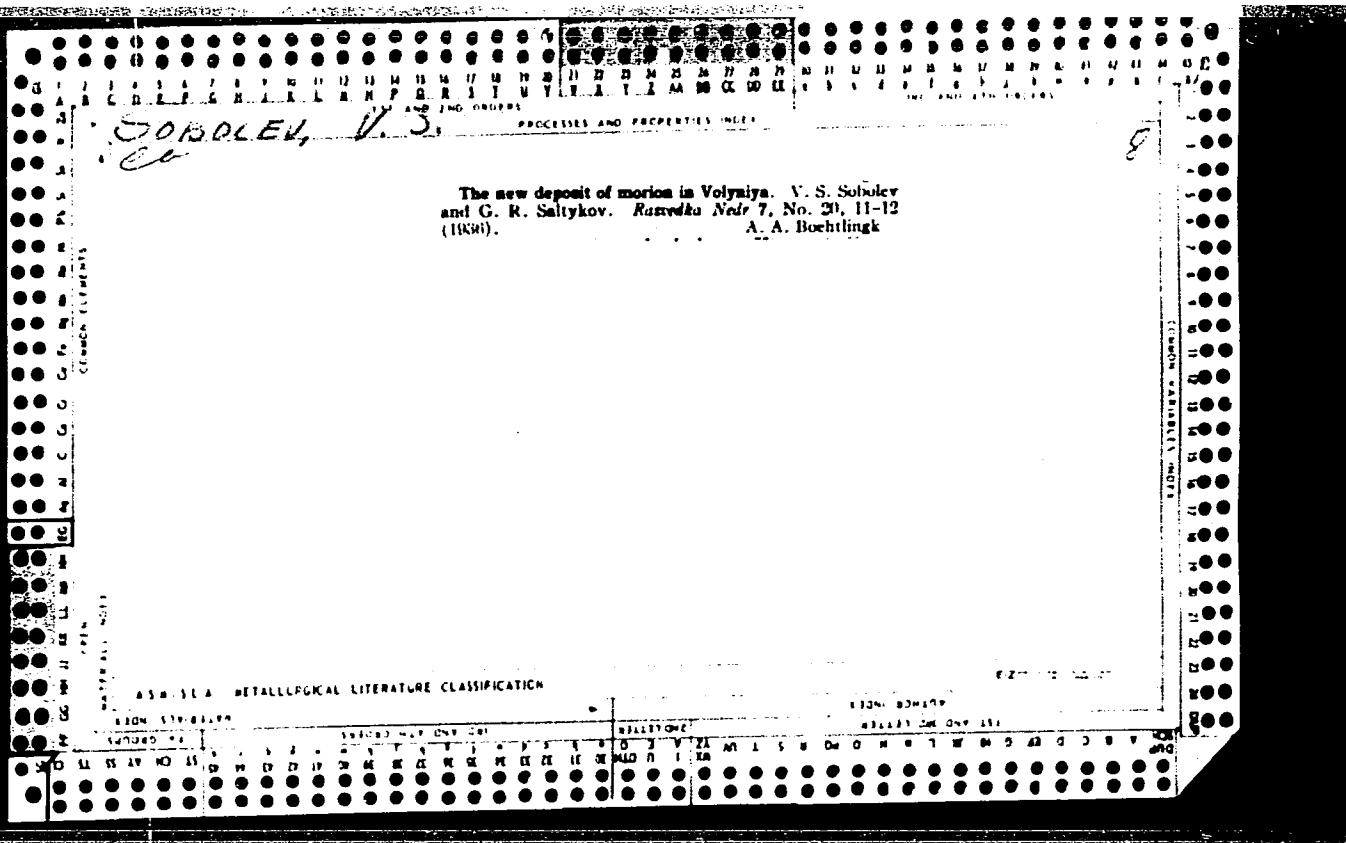
Izv. Gos. Geogr. Obshch, Vol. 67, pp. 672-699, 1935

American Geographical Society, New York, N.Y.

Detailed description of the river Ilimpey, tributary
of the Nizhnyya Tienguska.

Scale 1:500,000.





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SOURCE 7.5.

1953

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SHOLES, V. S.

1937

(Information in this document was compiled from the 1925 and 1936 (CIA) and 1937 (SIS) editions of the Encyclopaedia Britannica, pp. 616, pte. 66, n. 4, 1937.
Mr. Sholles, V. S., was born in [redacted] [redacted] County, Indiana, USA, in 1877. He studied at the University of Indiana, Bloomington, Indiana, USA, and at the University of Michigan, Ann Arbor, Michigan, USA, where he received his law degree in 1900. He was admitted to the bar in 1901. He practiced law in Indianapolis, Indiana, USA, until 1911, when he moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1915. He then moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1920. He then moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1925. He then moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1930. He then moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1936. He then moved to [redacted] [redacted] County, Indiana, USA, where he practiced law until 1937. He died in [redacted] [redacted] County, Indiana, USA, in 1941. He was buried in [redacted] [redacted] Cemetery, Indianapolis, Indiana, USA, on May 2, 1941.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

SABULOV, V. S.

"Osnovatel' Kristallov (Determinant of Crystals), vol 1. part 2.
Leningrad-Moscow, GOKTI (Gosudarstvennoye ob'yedinennoye nauchno-tehnicheskoye
izdatel'stvo-- States United Publishing House for Science and Technology),
1939. pp. 264.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

Soviet Union, U.S.S.R.

"Magmaticheskiye epokhi Yeniseysko-Levskov chasti Sovetskoy arktiki."

Trudy XVII sessii, USSR, 1937. Vol 5, Moscow, 1940.

"S'chelochnyye sienniti slozhnogo Korostan'skogo plutona

(Zhitonirskaya oblast' USSR)"

"Zaniski Vseros. mineral. o-va, part 69, no 2-3, 1940.

20 EOLEV,

Crystallochemistry of double salts and their part in petrology and mineralogy. A. Schlyapnikoff and V. R. S. S. S. Serov. 1944, No. 2, p. 100-117. English summary. It discusses the structure of minerals and concludes that older mineral groups which have been considered as complex anions talmomosicates, titanium silicate, and common silicate are in reality double salts. The English summary is comprehensive. L. S. Tolp.

4.5.3.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

SOROLEV, V. S.

"Pro zv'yazok tverdosti mineraliv z koordinatsinnim chislom,"

"Nauk. zapiski L'viv derzh. un-tu, ser. geol. vol2, no 2, 1946."

"Obzor mestorozhdeniy berilla Vostochnoy Sibiri, Izv. Vsesoyuzn. geol. fonda."

no 1 1946.

Gos. geolizdat, Moscow-Leningrad.

SOBOLEV, Vladimir; VYALOV, O.S., professor, doktor; LAZARENKO, Ye.K.,
dotaent; PORFIR'IEV, V.B., professor, doktor; SOBOLEV, V.S.,
professor, doktor.

[Petrology of the eastern region of the complex Korosten plutonic
rocks] Petrologia vostochnoi chasti slozhnogo Korosten'skogo
plutona. [L'vov], Izdanie L'vovskogo gos. univ., 1947. 139 p.
(Lvov. Universytet. Naukovi zapysky no.5). (MLRA 9:5)
(Korosten--Rocks, Igneous)

7

B. Slobolev, V.

The cathodic region of the mercury arc. B. Klvarfel'd and V. Slobolev. *Zhur. Tekh. Fiz.* 17, 319-32(1947). Distribution of the voltage was measured in a low-pressure Hg arc in a 32-mm. diam. tube at const. current of 2.5 amp. The region between the cathode spot and the pos. column is characterized by absence of ionization and excitation of Hg. The electrons and pos. ions present in this region come mainly from the cathodic spot. With the concn. of pos. ions decreasing with increasing distance from the spot, their no., at a point approx. distant from the spot by one diam. of the tube, is no more sufficient to neutralize the space charge of the electrons which conduct the discharge current to the anode. This results in a sharp rise of potential which is limited by the ionization

produced by the electrons thus accelerated. The region of intense ionization is followed by one in which the potential gradient is of opposite sign, and where current conduction is governed by diffusion of electrons. A homogeneous pos. column with a const. potential gradient can be established only at a distance of several tube diam. from the cathode. If a plane anode is brought nearer to the cathode, the drop of voltage passes at least twice through a sharp max, the 1st time when the anode approaches the boundary between the pos. column and the region of reverse field, and a 2nd time when the anode approaches the boundary between the reverse field and the ionization-free cathodic region. These maxima correspond to an action of the anode on the discharge, manifesting itself in a lowering of the concn. of pos. ions in front of the anode, and resulting in a rise of the potential. N. Tchot

Gen. Venosta, DPA 21-11-9, Revised (Superseded by Gen. Venosta 21-11-90),
1948. H. "Norman" Price, author.
Geological Survey of Canada. Additional material
described in the following publications:
Price, N., 1950, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1950, No. 10, 19 p., 1 fig.;
Price, N., 1951, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1951, No. 10, 19 p., 1 fig.;
Price, N., 1952, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1952, No. 10, 19 p., 1 fig.;
Price, N., 1953, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
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Price, N., 1954, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1954, No. 10, 19 p., 1 fig.;
Price, N., 1955, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1955, No. 10, 19 p., 1 fig.;
Price, N., 1956, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1956, No. 10, 19 p., 1 fig.;
Price, N., 1957, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1957, No. 10, 19 p., 1 fig.;
Price, N., 1958, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1958, No. 10, 19 p., 1 fig.;
Price, N., 1959, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1959, No. 10, 19 p., 1 fig.;
Price, N., 1960, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1960, No. 10, 19 p., 1 fig.;
Price, N., 1961, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1961, No. 10, 19 p., 1 fig.;
Price, N., 1962, The geology of the Kootenay River
region, British Columbia, Geol. Surv. Canada
Memorandum, 1962, No. 10, 19 p., 1 fig.;
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region, British Columbia, Geol. Surv. Canada
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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651830001-6"

SOBOLEV, V.S.; SOBOLEVA, O.S.

Physicochemical interpretation of isomorphism. Nauk.zap.L'viv.un.
9:5-18 '48. (MLRA 10:5)

1.Kafedra petrografii i neorganicheskoy khimii.
(Crystallochemistry)

SOBOLEV, V.S., I FLORENSOV, N.A.
25L24

Genezis Botogol'skogo Grafite. Sov. Geologiya, No.32, 1948, s. 29-35.
- Bibliogr: 10 Nazv

SO: LETOPIS NO. 30, 1948

SOKLEV, V. S.

"Vvedeniye v mineralogiyu silikatov," L'vov, Izd. L'vov. gos. un-ta, 1949

"Printsipy i narytki postroeniya ratsional'noy klassifikatsii mineralov,"

part 2, Mineral. sbornik L'vov. geol. o-va, no 3, 1949.

"O strukture epidota i drugikh rabotakh Ito po strukture silikatov,

Mineral. sbornik L'vov geol. o-va, no 3, 1949.

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Mineral. sbornik L'vov. geol. o-va, no 3, 1949.

SOBOLEV, V.S.; SOBOLEVA, O.S.

Physicochemical treatment of isomorphism. Nauk. zap. L'viv, un.
13:35-49 '49. (MIRA 12:10)

1.Kafedra petrografii i kafedra obshchey i neorganicheskoy khimii
L'vovskogo gosudarstvennogo universiteta imeni I.Franko.
(Ionic crystals)

BOROLIV. V. S.

"Zhacheniye zhelezistosti fericheskikh mineralov i vspomogatel'nyye
diagrammy dlya pereielenii sostava biotitov, rogovykh obmanok i romoicheskikh
piroksenov, Mineral. sbornik. L'vov. geol. o-va, no 4, 1950.

"Geneticheskoye znacheniye ponyatiy struktury i teksturi, Mineral.,
sbornik L'vov. geol. o-va, no 4, 1950.

SOKOLOV, V. S.

"Geologiya mestorozhdeniy almazov Afriki, Avstralii, ostrova Borneo i Severnoy Ameriki" Moscow-Gosgeolizdat, 1951.

"Do problemi metamorfizmu, Geol. Zhurnal, vol 11, 1951, no 1 (Ukrainian)

SOROLEV, I. S., GORBACHEVSKAYA, O. N.

Aegirite in tuffite from Tertiary deposits of the Carpathian
piedmont. Min.sher. no. 5/159-166 '51
(MLRA 9:12)

I. Geouniversitet imeni Ivana Franko i Institut geologii
poleznykh iskopаемых, Akademiya nauk USSR.
(Carpathian Mountain region--Aegirite)
(Carpathian Mountain region--Tuffite)

C/5000 E 4 U.S.

Problems of garnet growth in sediments V. S. Sobolev,
N. S. Vartanova, and A. I. Shalnyuk. *Zapiski Vsesoyuznogo
Mineral. Obshchestva* (Mém. soc. russe mineral.) **80**, 122 (1951).—Morozewicz (1901) described grossularite crystals
in sediments which showed a typical regeneration structure;
similar phenomena have later been described by L. A.
Preobrazhenskii (*Trudy Inst. Geol. Nauk. Akad. Nauk
S.S.R.* 1941, 40) and by Serdyuchenko and Dubrovskaya
(preceding abstr.) also for staurolite, kyanite,
and chlorite. The high stability of the metamorphic
minerals mentioned, under the phys.-chem. conditions of
weathering on the earth's surface, is explained by the com-
pactness of their crystal structures. The phenomena of
regeneration which are in apparent contradiction with the
paragenetic conditions of the metamorphism, are discussed.
The morphological character of the so-called growth figures
cannot be that of etching figures. The assumption that the
garnet (especially almandine) is really always a mineral
formed under high temps. and pressures is highly improba-
ble. The regeneration may be not a thorough material
growth, but only a superficial re-arrangement under the ef-
fects of surface energies. The observed growth striations
may not have grown in the sediment, but may have per-
sisted from the mother rock.

W. Ritter

جذب، ۲۰۳

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Vastava sagaponi' concentrated in microphytes in association with *Trichia* sp. and *Leptodon* sp. in areas unaffected by grazing. In areas where grazing has been discontinued, *Leptodon* sp. and *Trichia* sp. are dominant, while *Vastava* sp. is absent.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

SOBOLEV, V.S.

Three works about E.S. Fedorov. Nauk.zap.L'viv.un. 21:156-157 '52.
(MLRA 10:7)
(Fedorov, Evgraf Stepanovich, 1853-1919)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

СОВИЕТ, В. С.; БОБРИЧЕВИЧ, А. П.; СОЛОДЧУКИЙ, В. В.

"Tourmaline in Metasomatic Rocks of the Transcarpathian Region," Minerals.
"Tourmaline in Metasomatic Rocks of the Transcarpathian Region," Minerals.
st. Lvovsk. z-cl. c-va, No 7, pp 309-312, 1953

In Transcarpathia, tourmaline in fine crystalline spherolithoid segregates has been observed in channeled liparitic tuffas and in quartzized breccias, consisting of fragments of clayey shales and granodiorite-porphyrites. In breccia are observed pyrite and separate conglomerates of fine-aggregate kaolinite. The quartz portions of the breccia consist of quartz and tourmaline. According to the data of spectral analysis, the tourmaline contains about 2% B_2O_3 , $N_{Fe} 1.658$, $N_{Mg} 1.638$, $N_{Ca-Na} = 0.020$. In the quartz-tourmaline rocks, tourmaline is contained from 10 to 20%. In crystals of quartz from rock with zonal spherolites of tourmaline are observed inclusions of mineral forming solutions with preponderance of the gaseous phase. At 250°, the inclusions were exploded, but homogenization was not observed. (RNG-ol, No 4, 1955)

Sms. No. 681, 7 Oct 55

SOBOLEV, V.S.; CHETVERIKOV, S.D., redaktor; SEMENOVA, M.V., redaktor;
MALEK, Z.N., tekhnicheskiy redaktor; POPOV, N.D., tekhnicheskiy
redaktor.

[The Fedorov method] Fedorovskii metod. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po geologii i okhrane nedr, 1954. 262 p.
(MLRA 7:11)
(Polarizing microscope) (Crystallography)

KOSTYUK, Vadim Pavlovich; SOBOLEV, V.S., redaktor; IMAS, R.L., redaktor;
SIVACHENKO, Ye.K., ~~tekhnicheskij~~ redaktor

[Paragenetic analysis of crystalline rocks of Podolia in the
region of Vinnitsa] Parageneticheskii analiz kristallicheskikh
porod Podolii v raione g. Vinnitsy. Kiev, Izd-vo Akademii nauk
USSR, 1955. 110 p. (MLRA 9:4)

1. Chlen-korrespondent AN USSR (for Sobolev)
(Vinnitsa--Rocks, Crystalline and metamorphic)

SLIVKO, M.M.; VYALOV, O.S., professor, redaktor; LAZARENKO, Ye.K., professor, redaktor; PORFIR'YEV, V.B., professor, redaktor; RESVOY, D.P., detsent, redaktor; SOBOLEV, V.S., professor, redaktor; MARYAVKO, A.V., tekhnicheskij redaktor.

[Study of tourmaline in some deposits of the U.S.S.R.] Issledovanie turmalinov nekotorykh mestozhdenii SSSR, L'vov, Izd-vo L'vovskogo universiteta, 1955. 124 p. (MLRA 9:5)

1. Deystvitel'nyy chlen AN USSR (for Vyalov). 2. Chlen-korrespondent AN USSR (for Lazarenko, Porfir'yev, Sobolev). 3. Chlen-korrespondent AN USSR (for Maryavko). 4. Tekhnicheskij redaktor (Tourmaline).

LODOCHNIKOV, Vladimir Nikitich, 1887-1943; SOBOLEV, V.S., redaktor;
GUROVA, O.A., tekhnicheskiy redaktor.

[Principal rock minerals] Glavnieshie porodoobrazuiushchie mi-
neraly . 4-e izd. Moskva, Gos.nauchno-tekhn.izd-vo literatury
po geologii i okhrane nedr, 1955. 247 p. [Microfilm] (MLR 8:9)
(Mineralogy) (Petrology)

SOBOLEV, V.S.

Role of pressure in the formation of minerals. Min.sber.no.9:
50-63 '55. (MIRA 9:9)

I.L'vev. Gosudarstvennyy universitet imeni Ivana Franke.
(Mineralogy)

SOBOLEV, V.S.; SPITKOVSKAYA, S.M.; EPSHTEYN, R.Ya.

Primary magmatic garnet (almandite) in dacites of the Transcarpathian
region. Min.sbor.no.9:316-319 '55. (MIRA 9:9)

I.L'vovskoye geologicheskoye obshchestvo.
(Transcarpathia--Almandite)

SOBOLEV,V.S.

B.S.Fedorov's role in the development of modern petrography.
Zap.Vses.min.ob-va 84 no.2:209-217 '55. (MIRA 8:10)

1. L'vovskiy Gosudarstvennyy universitet imeni Iv.Franko
(Fedorov, Evgraf Stepanovich, 1853-1919)

LODOCHNIKOV, Vladimir Nikitich; SQBOLEV, V.S., redaktor; GODOVIKOVA, L.A.,
redaktor izdatel'stva; AVERKIYeva, T.A., tekhnicheskiy redaktor

[Concise manual on petrology without a microscope; for nonspecialists]
Kratkaja petrologija bez mikroskopa; dlia nespetsialistov. Moskva.
Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. 1956. 154 p.
(Petrology) (MLRA 10:1)

BARTH, T.F.W.; LEONT'YEVA, A.A. [translator]; SOBOLEV, V.S., redaktor;
YAKOVLENKO, M.Ye., redaktor; SHAPOVALOV, V.I., tekhnicheskiy
redaktor

[Theoretical petrology. Translated from the English] Teoreticheskaya
petrologiya. Perevod s angliiskogo A.A.Leont'evoi. Pod red. i. s
predisl. V.S.Soboleva. Moskva, Izd-vo inostrannoi lit-ry, 1956.
414 p.

(MIRA 10:1)

(Petrology)

SOROLEV, V. S.

"Sostoyaniya i puti razvitiue kristalokhimii, Zapiski Vseoyuzn. mineral. o-va," part 85, no 1, 1956.

"Dopolneniye k diagrammam plavkosti sistem: nefelin-kalifilit-kremnezem i ortoklaz-al'bit-anortit, Mineral. sbornik L'vov, geol. o-va,
no 10, 1956.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6

SOBOLEV, V. S., SULTANOV, A. M., BORMCSOV, U. N. and NOZDREV, V. E.

Acoustical Institute of the Academy of Sciences of the USSR, Moscow

"Experimental Investigation of Relaxation Processes Arising When Ultrasonic Waves Pass through Liquids" paper presented at 2nd International Congress on Acoustics, Cambridge, Mass., 17-23 June 1956.

So: B-100200

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria,
Physical-Chemical Analysis, Phase Transitions. B-8

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3804.

significance of the thermal effect of sillimanite - mullite transformation, they correspond to the transitions disthene - sillimanite and andalusite - sillimanite.

Card : 2/2

-42-

15-57-7-9437

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,
p 101 (USSR)

AUTHOR: Sobolev, V. S.

TITLE: Additions to the Melting Curves of the Systems Nepheline-Kaliophilite-Silica and Orthoclase-Albite-Anorthite (Dopolneniya k diagrammam plavkosti sistem nefelin-kaliofilit-kremnezem i ortoklaz-al'bit-anortit)

PERIODICAL: Mineralog. sb. L'vovsk. geol. o-vo pri un-te, 1956,
Nr 10, pp 68-76

ABSTRACT: On the basis of existing petrographic data for the systems nepheline-kaliophilite-silica and orthoclase-albite-anorthite, data on the composition of solid solutions and of the position of the joint have been improved. For the first system, a supplemental fusion diagram is given as well as a paragenetic equilibrium diagram of the solid phases at about 1000°. For the second system, a fusion diagram is given for the system potassium feldspar-albite-anorthite with an excess of

Card 1/2

Sov. R. S. L. F. V., Vol. 3.
USSR/Physical Chemistry, Thermodynamics, Thermochemistry,
Equilibria, Phys.-Chem. Anal. Phase-Transitions.

B-8

Abs Jour : Ref Zhur - Khimiya, No 7, 1957, 22297.

Author : Sobolev, V. S., Boboleva, O. S.

Inst : Not given
Title : Relation between solubility of isomorphic salts in water and
their distribution in the liquid phase and in crystals.

Orig Pub : Mineralog. sb. I'lovsk. geol. o-vo pri Un-te. 1956, No 10, 319-
325.

Abstract : Literary material on solubility of 40 ternary systems (2 salts
+ H₂O) in solid solutions of the first type according to
Rosebourn's classification (mainly of sulfates) is worked on.
A relation is established between a maximum difference of one
of the component's contents in crystals and in a solution
(d max) and the salts (S₁ and S₂) solubility in water. An
equation, d max = 0.9/(S₁-S₂) (S₁, S₂)/100 is proposed, which
permits to plot an approximate distribution curve on the basis
of data on solubility of pure salts in water, if they provide
a full isomorphic series.

-102-

Card 1/1

SOBOLEV, V.S.

Present status and paths of development of crystallochemistry.
Zap.Vses.min.ob-va 85 no.1:3-12 '56. (MIRA 9:7)
(Crystallochemistry)

SOBOLEV, V.S.

BOBRIYEVICH, A.P., sotrudnik; BONDARENKO, M.N., sotrudnik; GNEVUSHEV, M.A.,
sotrudnik; KIND, N.D., sotrudnik; KORESHKOV, B.Ya., sotrudnik;
KURYLEVA, N.A., sotrudnik; NEFEDOVA, Z.D., sotrudnik; POPUGAYEVA,
L.A., sotrudnik; POPOVA, Ye.E., sotrudnik; SKUL'SKIY, V.D.,
sotrudnik; SMIRNOV, G.I., sotrudnik; YURKEVICH, R.K., sotrudnik;
FAYNSHTEYN, G.Kh., sotrudnik; SHCHUKIN, V.N., sotrudnik; BUROV,
A.P., nauchnyy redaktor; SOBOLEV, V.S., nauchnyy redaktor;
VERSTAK, G.V., redaktor izdatel'stva; KRYNOCHKINA, K.V., tekhnicheskiy
redaktor

[Diamonds of Siberia] Алмазы Сибири. [Moskva] Gos.nauchno-tekhkn.
izd-vo lit-ry po geol. i okhrane nedr, 1957. 157 p. (MLRA 10:7)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.
2. Amakinskaya ekspeditsiya Glavuralsibgeologii Ministerstva geologii i okhrany nedr SSSR (for Bobriyevich, Bondarenko, Gnevushev, Kind, Koreshkov, Kuryleva, Nefedova, Popugayeva, Popova, Skul'skiy, Smirnov, Yurkevich, Faynshteyn, Shchukin)
(Siberia--Diamonds)

SOBOLEV, V.S.

BOBRIYEVICH, A.P.; SOBOLEV, V.S.

Transformation of crystalline pyroxene schists of an Archean
complex into eclogite. Zap. Vses. min. ob-va 86 no.1:3-17 '57.
(Eclogite) (Pyroxenes) (MLRA 10:4)

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CIA-RDP86-00513R001651830001-6

See also file 12
BOGDANOV, A.A.; GAMKRELIDZE, P.D.; GORSKIY, I.I.; ZARIDZE, G.M.;
KRASHENINNIKOV, G.F.; MURATOV, M.V.; RADKEVICH, Ye.A.;
SOBOLEV, V.S.; KHAIN, V.Ye.; SHATALOV, Ye.T.

Visiting Czechoslovakian geologists. Vest.Mosk.un.Ser.biol.,
pochv., geol., geog. 12 no.2:3-27 '57. (MIRA 10:10)
(Czechoslovakia--Geology)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651830001-6"

SOBOLEV, V.S.

Present-day petrological theories and hypotheses on the formation
of magmatic rocks. Zap. Vses. min. ob-va 86 no.2:301-310 '57.
(Rocks, Igneous) (Metasomatism) (MLRA 10:6)

SOBOLEV, V.S.

Mineral formation under stress. Min.sbor. no.11:45-51
'57. (MIRA 13:2)

1. Gosuniversitet imeni Ivana Franko, L'vov.
(Mineralogy)

MOOR, G.G.; SOBOLEV, V.S.

Siberian kimberlites. Min.sbor. no.11:369-371 '57.
(MIRA 13:2)

1. Nauchno-issledovatel'skiy institut geologii Arktiki, Leningrad
i Gosuniversitet imeni Ivana Franko, L'vov.
(Siberia--Kimberlite)

SOBOLEV, V.S.

At the International Geological Congress in Mexico. Min.šbor.
(MIRA 13:2)
no.11:410-418 '57.

1. Gosuniversitet imeni Ivana Franko, L'vov.
(Geology--Congresses)

VYALOV, O.S.; SOBOLEV, V.S.

Gaussberg in the Antarctic. Izv. vys. ucheb. zav.; geol. i razv.
no.2:3-17 F '58. (MIRA 11:6)

l. L'vovskiy gosudarstvennyy universitet im. I. Franko, kafedry
geologii i petrografii. (Gaussberg—Geology)

ZAVARITSKIY, A.N. [deceased]; SOBOLEV, V.S.; KVASHA, L.G.; KOSTYUK, V.P.
BOBRIYEVICH, A.P.

New diagrams for determining the composition of high-temperature
plagioclases. Zap. Vses. min. ob-va 87 no.5:529-541 '58.
(MIRA 12:1)
(Plagioclase)

KACHKIN, S.S.; SOBOLEV, V.S.

Lithologic factor governing the formation of certain gas and oil pools. Geol. nefti 2 no.6:20-24 Je '58. (MIRA 11:7)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologo-razvedochnyy institut.

(Timan Ridge--Petroleum geology) (Timan Ridge--Gas, Natural--Geology)

SOBOLEV, V.S.; KOSTYUK, V.P.

Geology of Neocene volcanic rocks in Transcarpathia. Trudy Lab.vulk.
no.13:243-254 '58. (MIRA 12:3)
(Transcarpathia--Volcanic ash, tuff, ect.)

BOBRIYEVICH, A.P.; BONDARENKO, M.N.; GNEVUSHKOV, M.A.; KRASOV, L.M.;
SMIRNOV, G.I.; YURKEVICH, R.K.; SOBOLEV, V.S., akademik, nauchnyy
red.; VERSTAK, G.V., red.izd-va; GUROVA, O.A., tekhn.red.

[Diamond deposits of Yakutia] Almaznye mestorozhdeniya i Akutii.
Nauchnyi red. V.S.Sobolev. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po geologii i okhrane nedr, 1959. 526 p. (MIRA 12:11)
(Yakutia--Diamonds)

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TITLE: A Xenolite of the Eclogite With Diamonds (Ksenolit eklogita s almazami)

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ABSTRACT: A xenolite of the type mentioned in the title with a great number of visible diamonds was found in the kimberlite of the "Mir" tube, and handed over by R. K. Yurkevich and L. M. Zaretskiy to the authors for investigation. The rock forms a coarse-grained aggregate of red-orange colored garnet and dark-green monoclinic pyroxene. Diamond octahedrons are enclosed in their mass. Together with diamond, idiomorphic graphite crystals are visible (Figs 1,2 adjoining p 616). Garnet (Fig 3) constitutes more than 50% of the rock, and occurs in the form of idiomorphic or irregular grains. Tables 1 and 2 indicate the garnet composition in % converted to xenolite and basic components (analysis by E. A. Kolesnikova in the laboratory of the Amakinskaya Expedition). The same tables also contain analytic results together with conversions

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A Xenolite of the Eclogite With Diamonds

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for other garnets for comparison. The diamond crystals are investigated at present and their description will be given later. They are flat facet-shaped octahedrons of coarse-laminar structure. In spite of eager search, it has only been possible up to date to find single concrescences of diamond crystals with eclogite minerals (Refs 4-6). According to Z. V. Bartashinskiy there are sometimes traces of graphitization visible in the xenolite diamonds. But this may be graphite of the 2nd generation which was formed after the reduction of pressure below the equilibrium curve graphite-diamond at the magmatic rise (before the formation of tubes). There are 2 types of eclogite formation: a) peculiar crystalline slates (Ref 1) with no plagioclase; b) not only the plagioclase is missing, but also the garnet has a different character here: it contains much less of the almandine component and is rich in chromic oxide. The eclogite discussed here is similar to type a. The occurrence of diamonds in the eclogite xenolite leads to the assumption that the rock referred to - in spite of the similarity mentioned - was formed at a higher pressure than is attained by the usual metamorphism (up to 20000 atmospheres). It is probable that this rock was lifted by the magma from

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